Centre Number	Candidate Number	Name		
UNIVERS		E INTERNATIONAL EXAMINATIONS		
PHYSICS		5054/03		
Paper 3 Prac	tical Test	October/November 2006		
ANSWER BOOKLET		2 hours		
READ THESE INSTRU	CTIONS FIRST			
Write in dark blue or bla You may use a soft pen				
Graph paper is provided is necessary to do so.		wer Booklet: scrap paper must <b>not</b> be used. Additional sheets of graph paper should be used	only if	
At the end of the examin	lation, lasten all work se	curely together.		
		For Examiner	's Use	
		2		
		3		
		4		
		4		
		4 Total		

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# Section A

- 1 (a) determination of D
  - (b) description, including diagram, of how you made sure that an accurate value was obtained for D

(c) determination of T

(d) diagram to show how T was determined

(e) calculation of *f* using 
$$f = \frac{D^2}{4.16 T}$$

#### 2 (a) record of I and V

(b) calculation of the resistance of the LDR

4

(c) record of the second set of values of I and V

(d) calculation of the second resistance of the LDR

(e) conclusion based on observations

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(d) record of the angle of reflection

(e) reason why the line CD may not meet the horizontal line at X

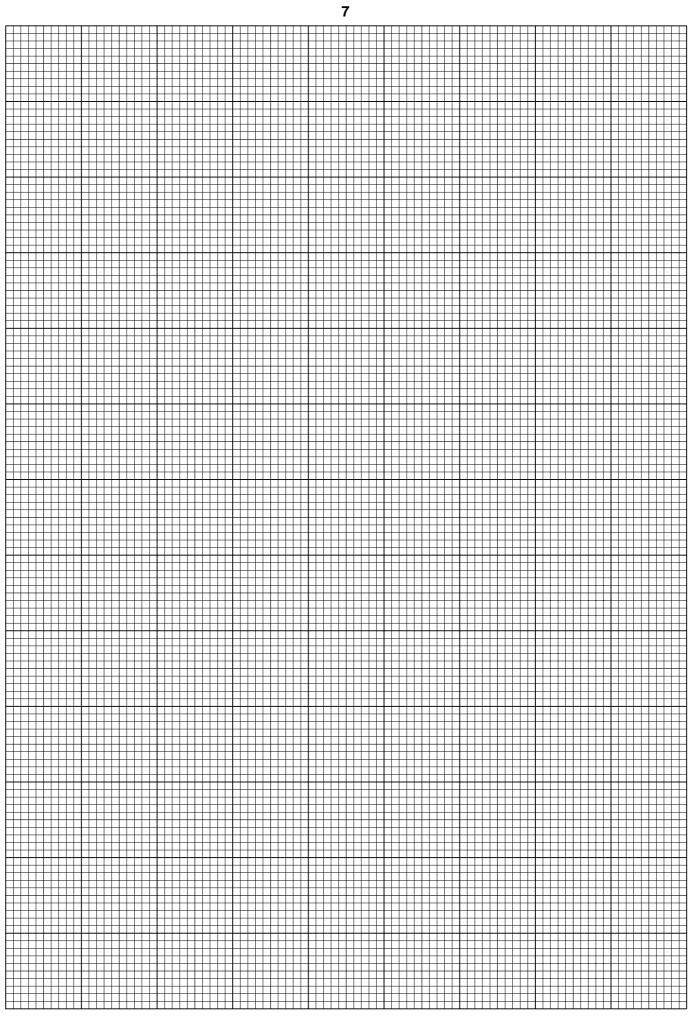
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# Section B

- 4 (a) record of x and determination of t
  - (b) calculation of *w* and *v*
  - (c) and (d) table of values of x, recorded times, t, w and v

x/	recorded times/	t/	w/	v/

- (e) using the grid on page 7 plot a graph of v/(cm/s) on the y-axis against t/s on the x-axis
- (f) description of the acceleration of the sphere, with explanation
- (g) determination of the average rate of change of velocity with time



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